

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A temperature detecting unit comprising:  
a temperature detecting sensor which receives infrared rays radiated by an object,  
thereby detecting the temperature of said object without contact with said object;  
a window member, which is arranged between said object and said temperature  
detecting sensor, and which transmits the infrared rays; ~~and~~  
a frame which holds said window member; and  
a second window member, which is arranged between said window member and said  
temperature detecting sensor, and which transmits the infrared rays,  
wherein said window member includes a surface with a fluorination organic  
compound, and  
wherein said second window member includes a surface with a fluorination organic  
compound.
2. (Withdrawn) The temperature detecting unit according to claim 1, wherein said  
surface faces said object.
3. (Original) The temperature detecting unit according to claim 1, wherein said  
surface faces said temperature detecting sensor.
4. (Original) The temperature detecting unit according to claim 1, wherein said  
surface includes a membrane with the fluorination organic compound.
5. (Original) The temperature detecting unit according to claim 4, wherein said  
membrane is formed by coating a fluorocarbon resin thereon.

6. (Withdrawn) The temperature detecting unit according to claim 4, wherein said membrane is formed by spreading oil with fluorine.

7. (Original) The temperature detecting unit according to claim 1, wherein said window directly faces said temperature detecting sensor.

8. (Withdrawn) The temperature detecting unit according to claim 1, wherein said window directly faces said object.

9. (Original) The temperature detecting unit according to claim 8, wherein said window includes a plane surface facing said object.

10. (Original) The temperature detecting unit according to claim 8, wherein said window includes a lens-shaped surface facing said object.

11. (Original) The temperature detecting unit according to claim 1, further comprising a surrounding member which surrounds said temperature detecting sensor.

12. (Original) The temperature detecting unit according to claim 11, said surrounding member includes said frame.

13. (Original) The temperature detecting unit according to claim 1, further comprising a partition arranged between said object and said temperature detecting sensor.

14. (Original) The temperature detecting unit according to claim 13, wherein said partition includes said frame.

15. (Currently Amended) The temperature detecting unit according to claim 1, further comprising:

~~a second window member, which is arranged between said window member and said temperature detecting sensor, and which transmits the infrared rays; and~~

a second frame which holds said second window member;  
~~wherein said second window member includes the surface with a fluorination organic~~  
compound.

16. (Currently Amended) ~~The~~ A temperature detecting unit ~~according to claim 1,~~  
comprising:

a temperature detecting sensor which receives infrared rays radiated by an object,  
thereby detecting the temperature of said object without contact with said object;

a window member, which is arranged between said object and said temperature  
detecting sensor, and which transmits the infrared rays;

a frame which holds said window member; and  
~~further comprising~~ an airflow unit which increases provides a curtain of airflow along  
a surface of the window member between said object and said temperature detecting sensor,  
wherein said window member includes a surface with a fluorination organic  
compound.

17. (Currently Amended) The temperature detecting unit according to claim ~~[[1]]~~ 16,  
wherein said airflow unit comprises:

a ventilator which sends air between said object and said temperature detecting  
sensor; and

a suction member, which is arranged such that said window member is between said  
ventilator and said suction member, and

which sucks the air between said object and said temperature detecting sensor.

18. (Original) The temperature detecting unit according to claim 1, wherein said

object is a fixing member which heats a toner image and thereby fixes said toner image on a record medium.

19. (Withdrawn) The temperature detecting unit according to claim 18, wherein said fixing member is a fixing roller.

20. (Original) The temperature detecting unit according to claim 18, wherein said fixing member is a fixing belt.

21. (Original) The temperature detecting unit according to claim 1, wherein said object is food cooked by an electric heating cooking device.

22. (Original) The temperature detecting unit according to claim 1, wherein said object is air in a room whose temperature is regulated by an air conditioner.

23. (Cancel)